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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/716,827
				Filing Date	November 20, 2003
				First Named Inventor	BABIN
				Art Unit	11A2
				Examiner Name	T. HEITBRINK
Sheet	1	of	2	Attorney Docket Number	10984-1052

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TWH		US- 3,553,788	01/12/1971	Putkowski	
TWH		US- 4,902,218	02/20/1990	Leonard et al.	
TWH		US- 5,004,416	04/02/1991	Van Den Brink	
TWH		US- 5,087,893	11/26/1991	Osuna-Diaz	
TWH		US- 5,360,333	11/01/1994	Schmidt	
TWH		US- 5,411,392	05/02/1995	Von Buren	
TWH		US- 5,830,524	11/03/1998	Braun	
TWH		US- 5,973,296	10/26/1999	Juliano et al.	
TWH		US- 6,086,356	07/11/2000	Yu	
TWH		US- 6,280,177	08/28/2001	Döbler	
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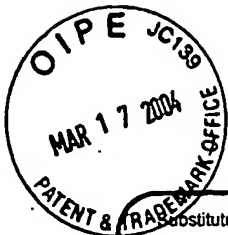
FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TWH		EP 0 963 829	15/12/1999	Husky		
TWH		DE 42 30 758	03/17/1994	Wolff		

Examiner Signature	<i>Tim Heitbrink</i>	Date Considered	10-31-05
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PTO/SB/08b(05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/716,827		
		Filing Date	November 20, 2003		
		First Named Inventor	BABIN		
		Group Art Unit	1732		
		Examiner Name	T. HEITBRINK		
Sheet	2	of	2	Attorney Docket Number	10984-1052

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TwH		***EWKON needle valve nozzle with absolutely symmetrical melt flow	
TwH		BORADA ENGINEERING INC. Non Planar Surfaces	
TwH		OHM CRAFT New Heater maker is sure to warm the hearts of designers	
TwH		WALTOW ELECTRIC MANUFACTURING CO. Thick Film Manifold Heaters Help Deliver Hot Runner Precision	
TwH		WATLOW ELECTRIC MANUFACTURING CO. Improve Part Quality and Reduce Cycle Time with Thick Film Nozzle Heating Technology	

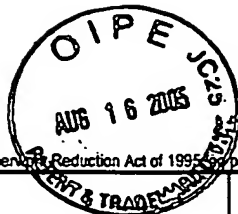
Examiner Signature	<i>T. Heitbrink</i>	Date Considered	10-31-05
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Equivalent of Form PTO/SB/08A (07-05)

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Substitute for form 1449/PTO FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/716,827
				Filing Date	November 20, 2003
				First Named Inventor	Denis BABIN
				Art Unit	1722
				Examiner Name	Heitbrink, Timothy W.
Sheet	1	of	1	Attorney Docket Number	2107.1830001/LEA

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
TWJ	US1	5,049,062	09-17-1991	Gellert	
	US2				
	US3				
	US4				
	US5				
	US6				
	US7				
	US8				
	US9				
	US10				
	US11				
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	US18				
	US19				
	US20				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
TWJ	FP1	JP 2005041020 A	02-17-2005	Ikegami Kanagata Kogyo KK		
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8					
	FP9					

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Examiner Signature	<i>Timothy W. Heitbrink</i>	Date Considered	10-31-05
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